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 National Academy of Engineering

# INNOVATIVE EARLY-CAREER ENGINEERING FACULTY SELECTED TO PARTICIPATE IN NAE'S FOURTH FRONTIERS OF ENGINEERING EDUCATION SYMPOSIUM

WASHINGTON – Seventy-two of the nation's most innovative, young engineering educators have been selected to take part in the National Academy of Engineering's fourth Frontiers of Engineering Education (FOEE) symposium. Faculty members who are developing and implementing innovative educational approaches in a variety of engineering disciplines will come together for the 2-1/2-day event, where they can share ideas, learn from research and best practice in education, and leave with a charter to bring about improvement in their home institution. The attendees were nominated by fellow engineers or deans and chosen from a highly competitive pool of applicants. The symposium will be held Oct. 14-17 in Irvine, Calif.

"The Frontiers of Engineering Education program creates a unique venue for engineering faculty members to share and explore interesting and effective innovations in teaching and learning," said NAE President Charles M. Vest. "We want FOEE to become a major force in identifying, recognizing, and promulgating advances and innovations in order to build a strong intellectual infrastructure and commitment to 21st-century engineering education."

This year's program will focus on innovations in the context, curriculum, and delivery of engineering education. "It is absolutely critical that U.S. engineering educators learn how to become more effective in the classroom, utilizing technology and pedagogy in creative ways in order to produce more innovative graduates who have the ability to address the complex problems of the 21<sup>st</sup> century," said Larry Shuman, Senior Associate Dean for Academic Affairs and Distinguished Service Professor of Industrial Engineering at the University of Pittsburgh, and the chair of the FOEE planning committee. "To do otherwise will cede the nation's place as an educational leader to other, more aggressive countries. At FOEE these outstanding faculty will learn about the newest educational developments ranging from MOOCs (massive, open, online, courses) to online publishing."

The following individuals were selected as attendees:

Jeffrey La Belle	Arizona State University
Thomas Seager	Arizona State University
Aviral Shrivastava	Arizona State University
Lorena Barba	Boston University
Peter Jansson	Bucknell University
Hemanth Porumamilla	California Polytechnic State University, San Luis Obispo
Heidi Martin	Case Western Reserve University
Marco Castaldi	City College of The City University of New York
Petru Andrei	Florida State University
Jill Nelson	George Mason University
Adjo Amekudzi	Georgia Institute of Technology
Joseph Le Doux	Georgia Institute of Technology
Amy Pritchett	Georgia Institute of Technology
Conor Walsh	Harvard University
Robert Nagel	James Madison University
Todd Hufnagel	Johns Hopkins University
Constantinos Daskalakis	Massachusetts Institute of Technology
Dean Aslam	Michigan State University
Jon Sticklen	Michigan State University
Islam El-adaway	Mississippi State University
Bryan Jones	Mississippi State University
Lesley Strawderman	Mississippi State University

Rani Sullivan	Mississippi State University
Andrew Gouldstone	Northeastern University
Waleed Meleis	Northeastern University
Bruce Ankenman	Northwestern University
Jennifer Cole	Northwestern University
Kenneth Reid	Ohio Northern University
Enrique Gomez	Pennsylvania State University
Mireille Boutin	Purdue University
Jong Hyun Choi	Purdue University
Loring Nies	Purdue University
Dimitrios Peroulis	Purdue University
Maryam Saeedifard	Purdue University
Maria Oden	Rice University
Sridhar Condoor	Saint Louis University
Jon Kellar	South Dakota School of Mines and Technology
Stephen Canfield	Tennessee Technological University
Jean-Francois Chamberland	Texas A&M University
John Criscione	Texas A&M University
Victor Ugaz	Texas A&M University
Benjamin Hescott	Tufts University
Ashok Ramasubramanian	Union College
Norman Dennis	University of Arkansas
Christa Hestekin	University of Arkansas
Marc Facciotti	University of California, Davis
Alissa Kendall	University of California, Davis
Michael Neff	University of California, Davis
Amir AghaKouchak	University of California, Irvine
Michael Gordon	University of California, Santa Barbara
Niels Da Vitoria Lobo	University of Central Florida
W. Gregory Sawyer	University of Florida
Stephan Durham	University of Georgia
Lawrence Angrave	University of Illinois, Urbana Champaign
Julie Jessop	University of Iowa
Omolola Eniola-Adefeso	University of Michigan
Mark Yim	University of Pennsylvania
Ipsita Banerjee	University of Pittsburgh
Kingsley Reeves	University of South Florida
Malancha Gupta	University of Southern California
Claudia Rawn	University of Tennessee, Knoxville
Jeffrey Reinbolt	University of Tennessee, Knoxville
Xiaojing (John) Zhang	University of Texas, Austin
Laura Suggs	University of Texas, Austin
Jose Espiritu	University of Texas, El Paso
Heidi Taboada	University of Texas, El Paso
Reid Bailey	University of Virginia
Gavin Garner	University of Virginia
Matthew Roberts	University of Wisconsin, Platteville
Wei Shi	University of Wisconsin, Stout
Anurag Srivastava	Washington State University
Gregory Thompson	West Virginia University

The planning committee members of the 2012 symposium are:

Larry Shuman (Chair)	University of Pittsburgh
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Stephen Director (Co-Chair)	Northeastern University
Mary Besterfield-Sacre	University of Pittsburgh
David Darmofal	Massachusetts Institute of Technology
Larry McIntire	Georgia Institute of Technology
Ann McKenna	Arizona State University
Karl Smith	University of Minnesota/ Purdue University
Christopher Swan	Tufts University
James Tien	University of Miami

The 2012 Frontiers of Engineering Education symposium is sponsored by John McDonnell and the McDonnell Family Foundation.

The mission of the National Academy of Engineering is to advance the wellbeing of the nation by promoting a vibrant engineering profession and by marshalling the expertise and insights of eminent engineers to provide independent advice to the federal government on matters involving engineering and technology.

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